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Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 12

## Complete if Known

Application Number	10/669,954
Filing Date	Sept. 23, 2003
First Named Inventor	Anand P. Narayan
Art Unit	
Examiner Name	
Attorney Docket Number	TCOM-0007

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 4088955	05-09-1978	Baghdady	
		US- 4309769	01-05-1982	Taylor, Jr.	
		US- 4359738	11-16-1982	Lewis	
		US- 4665401	05-12-1987	Garrard et al.	
		US- 4670885	06-02-1987	Parl et al.	
		US- 4780885	10-25-1988	Paul et al.	
		US- 4856025	10-08-1989	Takai	
		US- 4893316	01-09-1990	Janc et al.	
		US- 4922506	05-01-1990	McCallister et al.	
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		US- 4965732	10-23-1990	Roy III et al.	
		US- 5017929	05-21-1991	Tsuda	
		US- 5099493	05-24-1992	Zeger et al.	
		US- 5105435	04-14-1992	Stilwell	
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		US- 5119401	06-02-1992	Tsujimoto	
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		US- 5151919	09-29-1992	Dent	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		EP 0558910 A1	01-25-1993	Blaupunkt-Werke GmbH		435972
		EP 0610989 A2	01-31-1994	Phillips Patentverwaltung GmbH		435972
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		DE 4201439 A1	07-22-1993	Daimler-Benz		435972
		DE 4326843 A1	02-16-1995	Richard Hirschmann GmbH & Co		435972

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		US- 5218359	06-08-1993	Minamisono	
		US- 5218619	06-08-1993	Dent	
		US- 5220687	06-05-1993	Ichikawa et al.	
		US- 5224122	06-29-1993	Bruckert	
		US- 5237586	08-17-1993	Bottomley	
		US- 5263191	11-16-1993	Dickerson	
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		US- 5390207	02-14-1995	Fenton et al.	
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		US- 5396256	03-07-1995	Chiba et al.	
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		DE 4343959 A1	06-29-1995	Richard Hirschmann GmbH & Co		522068
		WO 93/12590	06-24-1995	Array-Comm, Inc.		522066
		GB 2280575 A	02-01-1995	Roke Manor Research Limited		522068
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		US- 5448600	09-05-1995	Lucas	
		US- 5481570	01-02-1996	Winters	
		US- 5506865	04-09-1996	Weaver Jr.	
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		US- 6002727	12-14-1999	Uesugi	
		US- 6014373	01-11-2000	Schilling et al.	
		US- 6018317	01-25-2000	Dogan et al.	
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		US- 6104712	08-15-2000	Robert et al.	
		US- 6115409	09-05-2000	Upadhyay et al.	
		US- 6127973	10-03-2000	Choi et al.	
		US- 6131013	10-10-2000	Bergstrom et al.	
		US- 6137788	10-24-2000	Sawahashi et al.	
		US- 6141332	10-31-2000	Lavaen	
		US- 6154443	11-28-2000	Huang et al.	
		US- 6157685	12-05-2000	Tanaka et al.	
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		US- 6192067	02-20-2001	Toda et al.	
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		US- 6282233	08-28-2001	Yoshida	
		US- 6285316	09-04-2001	Nir et al.	
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		US- 6321090	11-20-2001	Soliman	
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		US- 6327471	12-04-2001	Song	
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		US- 6351642	02-26-2002	Corbett et al.	
		US- 6359874	03-19-2002	Dent	
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		US- 6377636	04-23-2002	Paulraj et al.	

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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> *Number <sup>4</sup> *Kind Code <sup>5</sup> (if known)				
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U. S. PATENT DOCUMENTS					
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		Number-Kind Code <sup>2</sup> (if known)			
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		US- 5978413	11-02-1999	Bender	
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		KAPLAN, Understanding GPS - Principles and Applications, 1996, pgs. 83-236, Artech House, Norwood, MA, US	
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